

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 01309506
PUBLICATION DATE : 13-12-89

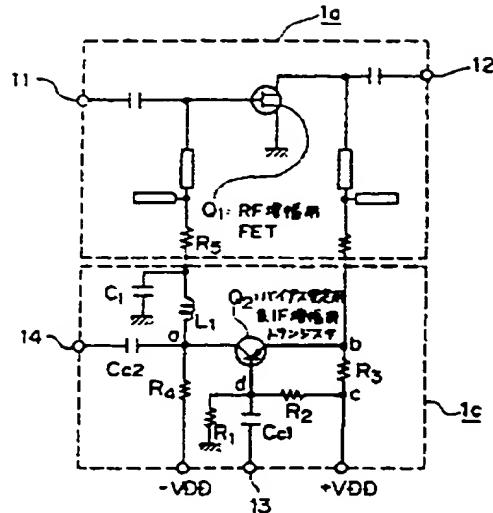
APPLICATION DATE : 08-06-88
APPLICATION NUMBER : 63141023

APPLICANT : ALPS ELECTRIC CO LTD;

INVENTOR : NISHIYAMA IKUMASA;

INT.CL. : H03F 1/30

**TITLE : AMPLIFIER CIRCUIT FOR BS
CONVERTER**



ABSTRACT : PURPOSE: To attain small size and to reduce the cost with a few component number by using a bias stabilizing transistor(TR) suppressing the fluctuation of a drain current of a high frequency (RF) amplification FET so as to constitute an intermediate frequency (IF) amplifier circuit.

CONSTITUTION: An IF signal given to an IF signal input terminal 13 is amplified by a TR Q₂ and the result is outputted to an IF signal output terminal 14. A coil L₁ exists between a collector of the TR Q₂ (point a) and a gate of a FET Q₁ and the coil L₁ at the side of the FET Q₁ is grounded via a capacitor C₁. Thus, since the IF signal at the point (a) and the BS signal of the gate of the FET Q₁ are insulated in terms of high frequency, the RF amplification by the FET Q₁ and the IF amplification by the TR Q₂ are implemented independently without any interference. That is, the bias stabilizing TR suppressing the fluctuation of the drain circuit of the RF amplifier FET is employed to constitute the IF amplifier circuit. Thus, number of components is reduced and the BS converter with small size and low cost is obtained.

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